Please replace the present Abstract of the Disclosure with the following new Abstract of the Disclosure.

In the state where X-rays are not projected, image signals S1 are read out from a detector 1, and the values of these image signals S1 are stored as offset correction values in a correction table 16. The detector 1 is ~~the~~ then irradiated with X-rays having a maximum dose of radiation to determine the gain correction values at which all the values of signals S3, which are the image signals S1 after the correction, are at a maximum value which can be taken as the signal value after the correction, and these values are stored in the correction table 16. Then, a subject is actually photographed to obtain image signals S1, and the image signals S1 are corrected for the offsets and gains by an offset adjusting means 11 and an AGC amplifier, on the basis of the offset correction values and the gain correction values stored in the correction table 16.